

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. - 30. (canceled)

31. (new): A method of transmitting wellbore data from a subsurface location to a surface location, the method comprising the steps of:

acquiring a complex formation data distribution with a formation evaluation tool positioned in the subsurface location;

separating, at the subsurface location, the complex formation data distribution into discrete parameter distributions;

identifying, at the subsurface location, the parameter distributions that are spurious; and transmitting the non-spurious parameter distributions to the surface location for reconstructing the complex formation data distribution.

32. (new): The method of claim 31, wherein each parameter distribution is interpreted independent of other parameter distributions.

33. (new): The method of claim 31, wherein the parameter distribution is selected from the group consisting of an amplitude, a mean, a standard deviation, and combinations thereof

34. (new): The method of claim 33, wherein each parameter distribution is interpreted independent of other parameter distributions.